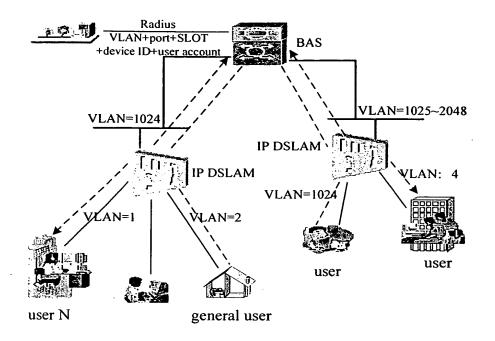Attorney: D. Bruce Prout
Docket No.: 57342/D587
Inventor(s): Haijun Wu
Title: A METHOD FOR TRANSFERRING USER
POSITION IDENTIFIER

Sheet 1 of 3

Fig.1

DstMAC	SrcMAC	Etype	Vlan1	Etype	DATA	FCS

Network side

IP
DSLAM

Configuration
information:
PORT1-VLAN1
PORT2-VLAN2
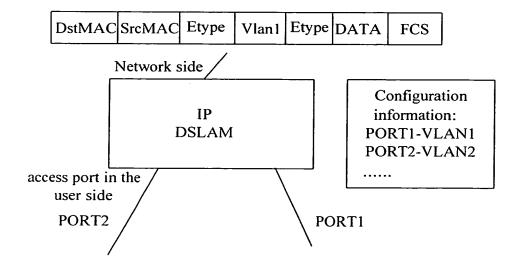......

access port in the
user side

PORT2

PORT1

Fig.2

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Docket No.: 57342/D587
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Title: A METHOD FOR TRANSFERRING USER
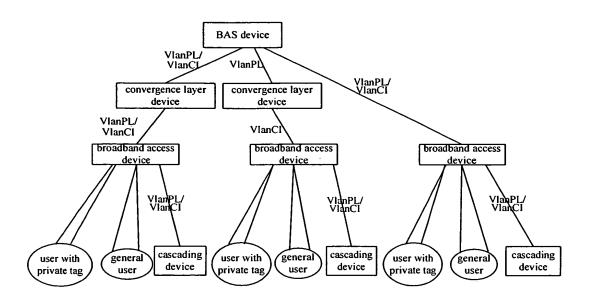POSITION IDENTIFIER
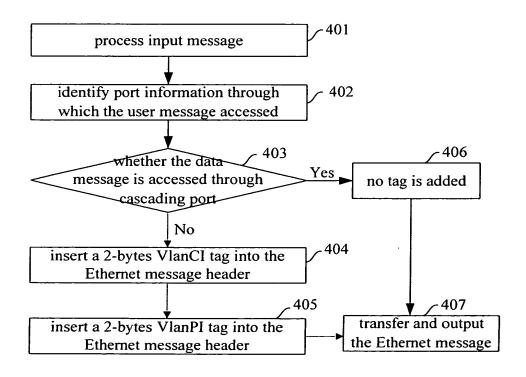
Sheet 2 of 3

Fig.3

Fig.4

Attorney: D. Bruce Prout
Docket No.: 57342/D587
Inventor(s): Haijun Wu
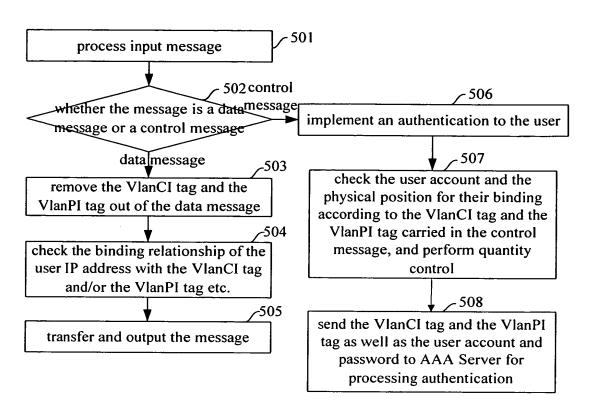Title: A METHOD FOR TRANSFERRING USER
POSITION IDENTIFIER

Sheet 3 of 3

process input message ⟋501

whether the message is a data message or a control message ⟋502

control message

data message

⟋503
remove the VlanCI tag and the VlanPI tag out of the data message

⟋504
check the binding relationship of the user IP address with the VlanCI tag and/or the VlanPI tag etc.

⟋505
transfer and output the message

⟋506
implement an authentication to the user

⟋507
check the user account and the physical position for their binding according to the VlanCI tag and the VlanPI tag carried in the control message, and perform quantity control

⟋508
send the VlanCI tag and the VlanPI tag as well as the user account and password to AAA Server for processing authentication

Fig.5